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Dear reader

The building sector in Europe is still being affected by the global financial crisis. Meanwhile, the efforts to reduce the energy consumption of buildings continue to be on top of the political agendas. High performance buildings are becoming the building solution for the future. Designing high performance buildings not only takes into account future-proof energy performance but also covers health and comfort aspects. In order to master this twofold challenge for the energy efficient construction and renovation, it is especially important to be comprehensively and regularly informed of any new and innovative developments, to exchange knowledge and experience with like-minded people, and be aware of suitable long-term strategies currently available. This edition of the BUILD UP newsletter highlights the topic of future-proof energy efficient buildings in several news items, but also gives insights in developments of national standards and regulations. We hope you enjoy reading the news and will get some inspiration for your daily life and we invite you to share your own experiences on the portal.

Your BUILD UP team.

Discover the latest and most interesting items posted by the BUILD UP users this month:

Publications



Working Paper: Current Financial and Fiscal Incentive Programmes for Sustainable Energy in Buildings from across Europe

This working paper from EuroACE (The European Alliance of Companies for Energy Efficiency in Buildings) provides an overview of the existing financial and fiscal incentive programme currently in place in the following EEA Member States: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom. EuroACE is calling for a list of these wide-ranging incentives to be incorporated into an Annex of the Recast of the EU Energy Performance of Buildings Directive with a requirement for EU Member States to implement one or more measures from the list.

Further information: [Click here](#)
More publications can be viewed here: [Click here](#)

Cases



Low energy building retrofit of a commercial building from 1960

A building refurbishment of a commercial building from 1960, publicly sponsored by the German Ministry of Economy and Technology within the EnOB research initiative was done by the Remscheider Entsorgungsbetriebe (REB). By the refurbishment, primary energy was reduced from 440 kWh/m²y to 100 kWh/m²y, in this case less than 60% compared with the reference building. The refurbishment includes constructions with transparent insulation materials and solar water heating. You find further information on the EnOB-homepage <http://www.enob.info>. EnOB is an abbreviation of the initiative "Research for energy-optimised construction".

Further information: [Click here](#)
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Communities



Energy efficient ventilation for healthy buildings

This community focuses on information and technology on Energy efficient ventilation for healthy buildings. The community is for professionals designing, installing and manufacturing ventilation systems and equipment. The community shares the results from the recent projects related to ventilation as well as relevant publications and upcoming events. The community is also a gateway to the current standardisation activities in the related area.

The requirements for good indoor air quality and energy efficiency have often been considered to conflict with each other. However, many buildings with low energy consumption in Europe seem to have also a lower rate of building related health symptoms. There are several ways to obtain significant savings in energy use in buildings and to improve indoor climate simultaneously. This community shares information on such ventilation technologies.

Stay informed on this item and join the discussions at: [Click here](#)
To visit and join other communities: [Click here](#)

Events



30th AIVC Conference "Trends in high performance buildings and the role of Ventilation"

The combined conferences 30th AIVC conference "Trends in high performance buildings and the role of Ventilation" and "4th International Symposium on Building and Ductwork Airtightness" aim to focus on 2 key aspects of the present ventilation challenges. - Since 1980, the AIVC conferences have been the meeting point for presenting and discussing interesting developments and results regarding ventilation in buildings. For each conference a specific theme is selected and a substantial part of the presentations relate to this theme.

Further information: [Click here](#)
Other events: [Click here](#)

Tools



E-Learning Module for Building Energy Modelling and Simulation

The Technical University of Eindhoven has developed an E-learning module for energy modelling and simulation. The self-learning course in English language is available on the Web and offers insights into energy and environmental simulation. In the introduction it is explained why building energy and environmental simulation should be used and some practical case studies are presented. In the practice part the software tool ESP-r is used as example for how to perform real building energy modelling within the simulation environment. ESP-r is however just one of various available similar software tools. The theoretical part enables the user to find out how building energy modelling and simulation actually works. The course includes exercises, assignments and answers to frequently asked questions. Throughout additional information is offered for a variety of topics, such as: a general glossary, technical dictionaries, web links and various ESP-r specific reference material. The courseware can be used in a variety of ways including distance learning, as supporting lecture material, for dissemination purposes or as reference material in project work.

Further information on this tool: [Click here](#)
Read about other interesting tools: [Click here](#)

News from the EU



European lamps become more energy efficient

The EU has set new energy efficiency requirements that lamps produced for the EU market need to fulfil as from 1 September 2009. Traditional incandescent and halogen bulbs will be gradually phased out from the market by the end of 2012. However, particular care was taken to ensure that consumers will find lamp alternatives either offering the same light quality or higher energy savings.

Further information: [Click here](#)

EU Commission launches FP7 call for energy-efficient

End of July the European Commission has published several calls for proposals in various thematic areas of the Seventh Framework Programme (FP7) including 4 calls in the thematic area "Energy". One of the calls is titled "Energy-efficient Buildings" - 2010. It contains a budget for 15 million Euros for collaborative projects about demonstration of energy efficiency through retrofitting of buildings. For further information see the Cordis website <http://cordis.europa.eu>.

Further information: [Click here](#)

New support for CEE municipalities towards integrated energy efficient planning process in new build housing

Increased capacities of local authorities will be an investment to the future for influencing new housing development at legislative, technical and planning level as well as guiding consumer

behaviour towards efficient energy use. Experiences and lessons learned in Western Europe are being transferred to CEE countries through a series of actions and guidance over the next two and a half years.

Further information: [Click here](#)

New information papers on software and atlases for thermal bridges and airtightness requirements for high performance buildings

The EU Intelligent Energy project ASIEPI has published two new information papers on < Software and atlases for evaluating thermal bridges > and < Airtightness requirements for high performance building envelopes >. The information papers include a summary of available software tools and atlases in European Member States regarding thermal bridge assessment, information on test procedures for the software and existing requirements regarding the airtightness for both regular buildings following the national energy decrees and even tighter requirements for high performance buildings. Both papers are available for download at BUILD UP and also at the project website www.asiepi.eu.

Further information: [Click here](#)

News from the countries



German embassy in Canberra to become a zero emission building

The German embassy building in Canberra, Australia, will be soon retrofitted in an energy efficient way. The foreign ministry has assigned Fraunhofer Institute for Building Physics to develop an energy efficient retrofit concept which aims at an emission free building use. The retrofit shall be realised with high-tech products of the German building and service system industry allowing the building to be operated with zero CO2 emissions if balanced over the year.

Further information: [Click here](#)

French decrees about boiler inspection

The French government published in June 2009 two decrees about the inspection of boilers, one for appliances between 4 and 400 kW and the other for appliances between 400 and 20 MW. These decrees transpose article 8 of the EPBD about inspection of boilers. Option b) of article 8 of the EPBD has been chosen, with a periodical mandatory maintenance (annual for boilers under 400 kW, at least every 2 years above 400 kW), including efficiency assessment together with advice to the user or owner about possible improvements.

Further information: [Click here](#)

Amendment of Construction Law in Poland changes the transposition of EPBD

On the 16th of July 2009 the Polish parliament passed an Act changing the Construction Law to redefine regulations concerning energy certificates for buildings. The amendment was adopted with the aim of correcting the transposition of the Directive 2002/91/EC. The text of the Act and critic commentaries from experts are available for download in PDF format.

Further information: [Click here](#)

New Dutch draft Standard on Energy Performance of Buildings is published

The new draft of the Dutch Standard on Energy Performance of buildings (ontwerp NEN7120) is available. The draft combines the current Standards on Energy Performance of new houses, on Energy Performance of non-residential buildings and the current ISSO publications on existing houses and on existing non-residential buildings. Also further harmonization with the CEN standards is accomplished.

Further information: [Click here](#)

UK Department for Communities and Local Government presents study on impact of definition of zero-carbon homes

Following a proposal for the definition for zero-carbon homes in January 2009, an impact assessment on the definition was published by the UK Department for Communities and Local Government in July 2009. UK aims at having zero net emissions of carbon dioxide from all energy use in new homes from 2016. This shall come from improved energy efficiency of buildings, a renewable low carbon energy supply and other measures equivalent to the remaining emissions.

Further information: [Click here](#)

New German study on how to reduce energy costs of computer centres by up to 75%

Private and public organisations can reduce the energy costs of computer centres by up to 75% by targeted technical optimisations. The necessary investments will be repaid generally after 2-3 years. The initiative "EnergieEffizienz" of the German energy agency "dena" presents the 4 most important fields of action for increasing the efficiency of computer centres: optimised use of server capacity, thermal improvement of the centre (splitting into warm and cold air spaces), use of modern and energy efficient IT hardware and optimised use of programs and data.

Further information: [Click here](#)

Also you can provide news for the BUILD UP Newsletter

Have you found some interesting news in the newsletter? Much more news is available in the [news section of BUILD UP](#). Also you can provide news for this portal. All you have to do is use the news upload template ([click here](#)) and your information will be spread Europe-wide to interested readers.

Submit your items to extend the content and knowledge on BUILD UP

If you are aware of other publications, events, tools or best practice cases in the field of energy efficiency in buildings, join the portal and submit the information. Other users will benefit from the extended available knowledge.

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